Linear Equations

Problem 1. A taxi charges $2 for every mile and $5 boarding fee in addition to its meter. Bill paid $49 to go to an airport. How far is the airport from his home?

Problem 2. A movie ticket costs $10 per adult and $5 per child. A family bought tickets for mom, dad, and each of the children. A total sum that they paid was $40. How many child tickets were bought?

Problem 3. Nicholas is 11 years old. His brother Paul is 9 years old. Their dad is 45 years old. In how many years will the sum of Nicholas’ and Paul’s ages be the same as their dad’s age?

Problem 4. A farmer uses a 300 m long wire to fence a rectangular plot where sheep graze. The length of this plot is twice its width. Find the dimensions of this plot.

Problem 5. In a class of 35 students, the number of girls is one fourth of the number of boys. How many girls and how many boys are in the class?

Problem 6. In a triangle, angle A is twice angle B, and angle C is 36 degrees larger than angle B. What are these angles?

Problem 7. The sum of three consecutive numbers is 18. Find these numbers.

Problem 8. A lego set costs $20 more than a truck toy. Bob bought two lego sets and 3 truck toys for his children and paid $80. How much do a lego set and a truck toy cost?

Problem 9. If a certain number is divided by 12, the quotient, dividend, and divisor, added together, will amount to 64. What is the number?

Problem 10. A man lived half of his life in England, one fourth of it in Scotland, and the remainder of it, which was 20 years, in the United States. To what age did he live?